

## THE McEDWARDS GROUP

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April 23, 2005  
Job No. 1078.01.02

Mr. Craig Hunt  
Water Resources Control Engineer  
California Regional Water Quality Control Board  
North Coast Region  
5550 Skylane Boulevard, Suite A  
Santa Rosa, CA 95403

Groundwater Monitoring Results  
March 2005  
7746 North Highway One  
Little River, California

Dear Mr. Hunt:

This letter presents monitoring results for March 2005. Groundwater levels were measured and water samples were taken in wells MW-1 through MW-4 on March 14, 2005. Groundwater levels were measured after opening the wells the day before to allow water levels to equilibrate to atmospheric pressure. Each monitoring well was purged of standing water until successive measurements of indicator parameters pH, conductivity, turbidity, dissolved oxygen, and temperature differed by less than 5% or until the well dewatered, whichever came first. Following purging, each well was let stand for at least two hours and then sampled using a disposable bailer. The well purging and sampling record is attached.

Well locations and relative top of casing elevations were surveyed by the undersigned. Contoured water level elevations for March 14, 2005 are shown on Plate 1. Hydrographs of the water level elevations in the four wells are shown on Plate 2. Water level depths and elevations are shown in Table 1. Water level elevations are relative to an assumed top of casing elevation of 100.00 at well MW-1. Casing and water level elevations will be modified to reflect the actual casing elevation at well MW-1 after it is determined by survey from a known monument.

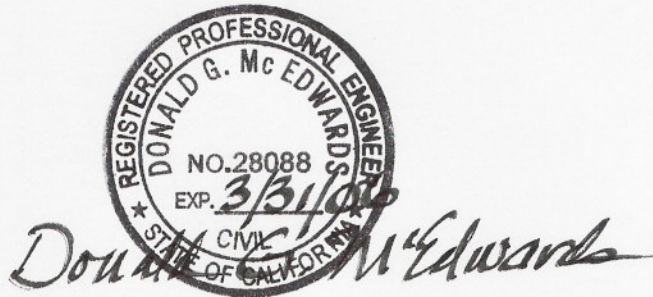
Water samples were analyzed for Total Petroleum Hydrocarbons (TPH) as Diesel; TPH as Motor Oil, TPH as Gasoline; Benzene, Toluene, Ethylbenzene, and Xylenes (BTEX); fuel oxygenates Di-isopropyl Ether (DIPE), Ethyl tert-Butyl Ether (ETBE), Methyl tert-Butyl Ether (MTBE), tert-Amyl Methyl Ether (TAME), and tert-Butanol (TB); and lead scavengers 1,2-Dichloromethane (EDB) and 1,2-Dichloroethane (1,2-DCA). Concentrations of TPH as Gasoline for March 2005 are contoured on Plates 4 and 5. Analytical results are tabulated in Table 2.

### CONCLUSIONS AND RECOMMENDATIONS

Plate 1 shows remarkably uniform groundwater flow to the southwest, toward the creek bordering the site on the south. Plate 2 shows a uniform increase in water levels from September 2004 to March 2005. Plate 3 shows remarkably uniform concentration contours of TPH as Gasoline with apparent contaminant migration to the north. It appears that the source of contamination is in the vicinity of well MW-2, perhaps under the building of Little River Market or under the floor of the Post Office.

We trust this is the information you require.

Very Truly Yours,  
THE McEDWARDS GROUP



Donald G. McEdwards, PhD, CE 28088, EG 1288, HG 153  
Principal Hydrogeologist

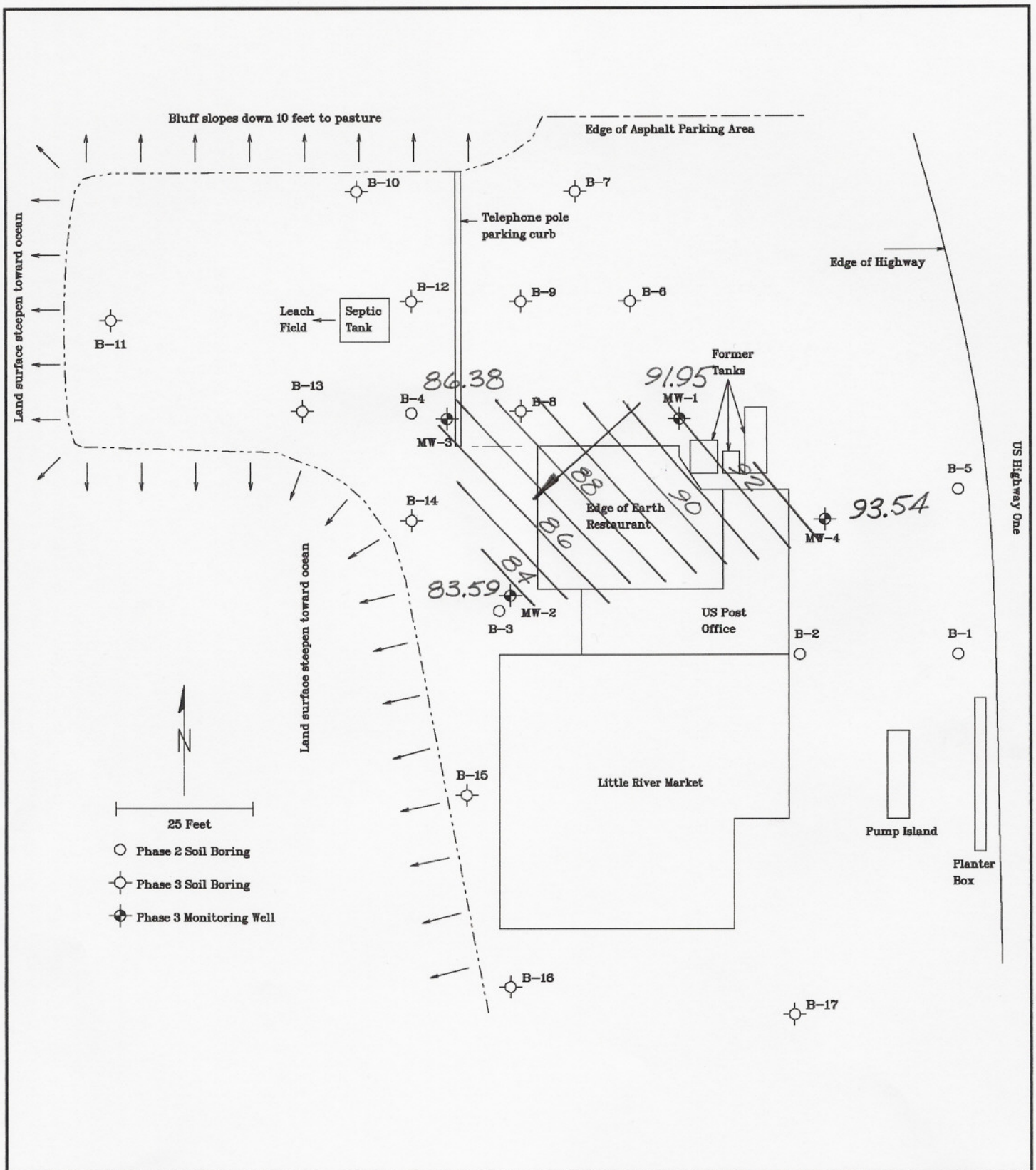
Attachments:    Water Level Elevation - 03/14/05, Plate 1  
                     Hydrographs of MW-1 through MW-4, Plate 2  
                     TPH as Gasoline - 03/14/05, Plate 3  
                     Table 1 - Water Level Depths and Elevations for Wells at  
                                 7746 North Highway One, Little River, California  
                     Table 2 - Analytical Results of Water Samples from Monitoring Wells at  
                                 7746 North Highway One, Little River, California  
                     Analytical Laboratory Report and Chain-of-Custody form  
                     Well Purging and Sampling Record

cc:                Mr. Eric Van Dyke  
                     P.O. Box 341  
                     Little River, CA 95456

Mr. Bruce Van Dyke  
3493 Meadowlands Lane  
San Jose, CA 95135

Mr. Carl Van Dyke  
P.O. Box 490  
Monte Rio, CA 95462





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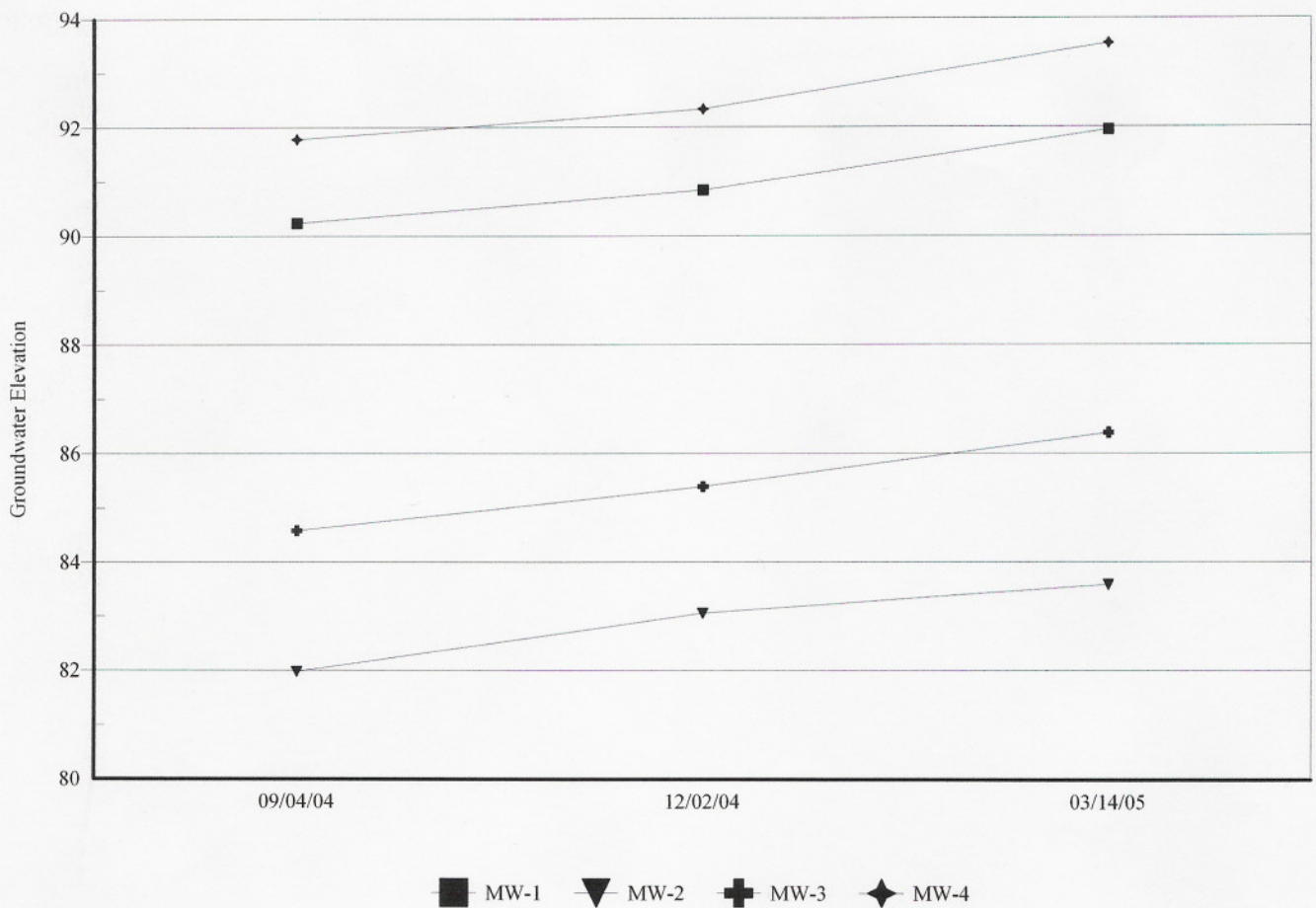
Water Level Contours - 03/14/05  
7746 North Highway One  
Little River, California

PLATE

1

Job Number: 1078.01.02

QTR.P1



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Hydrographs of MW-1 through MW-4  
7746 North Highway One  
Little River, California

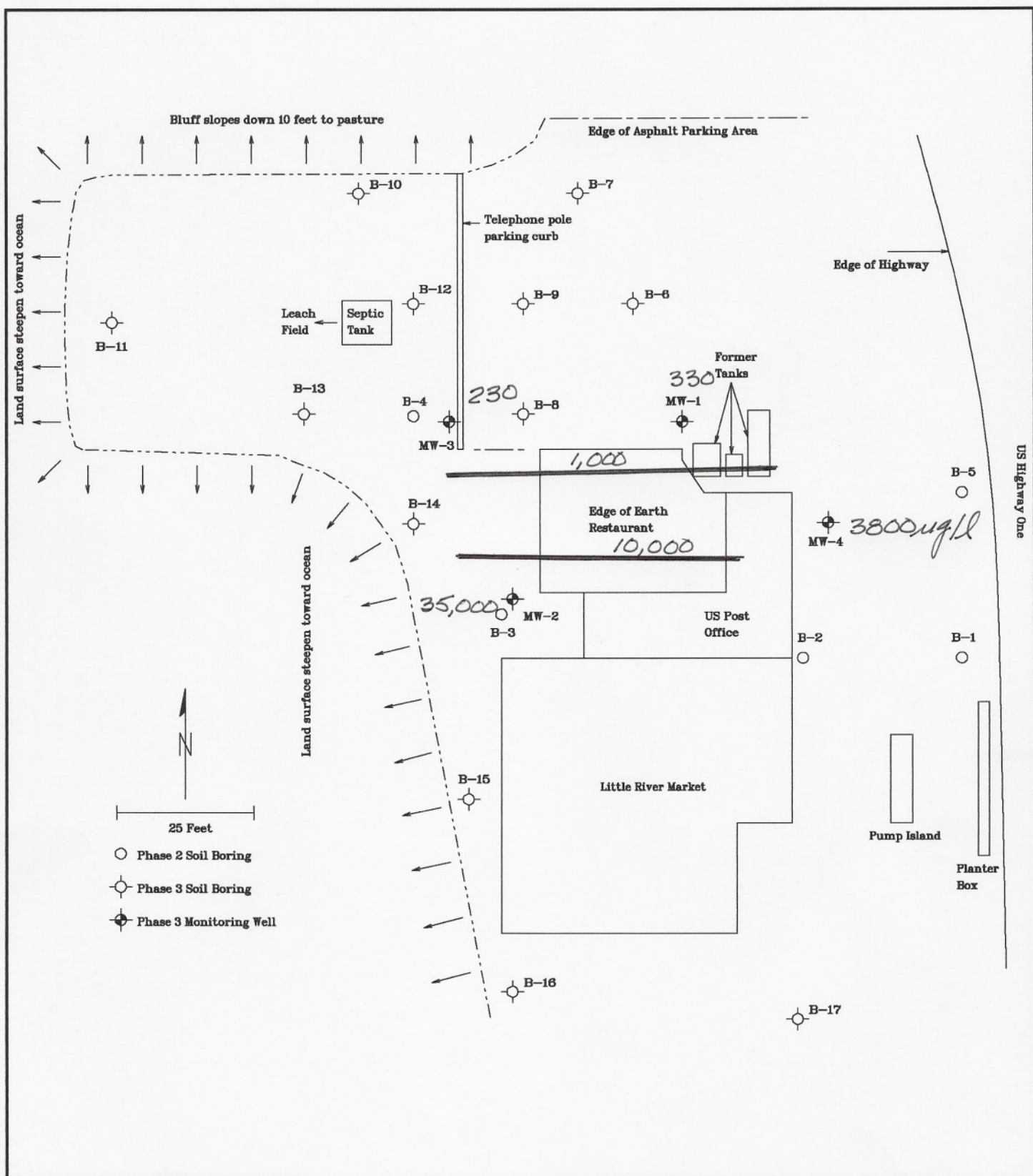
PLATE

2

Job Number: 1078.01.02

QTR.P2





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TPH as Gasoline - 03/14/05  
7746 North Highway One  
Little River, California

PLATE

3

Job Number: 1078.01.02

QTR.P3

Table 1 - Water Level Depths and Elevations for Wells at 7746 North Highway One, Little River, California

	TOC Elevation	Depth	Elevation 09/04/04	Depth	Elevation 12/02/04	Depth	Elevation 03/14/05
MW-1	100.00	9.76	90.24	9.16	90.84	8.05	91.95
MW-2	99.27	17.29	81.98	16.22	83.05	15.68	83.59
MW-3	98.88	14.30	84.58	13.49	85.39	12.50	86.38
MW-4	100.74	8.96	91.78	8.41	92.33	7.20	93.54

Table 2 - Analytical Results of Water Samples from Monitoring Wells at 7746 North Highway One, Little River, California

LAB NOTES			TPH as DIESEL	TPH as MOTOR OIL	TPH as GASOLINE	BENZENE	TOLUENE	ETHYL- BENZENE	XYLENES	DIPE	ETBE	MTBE	TAME	TB	EDB	1,2-DCA
			ug/l							ug/l						
<b>MW-1</b>	09/04/04	1,2	<b>70</b>	<250	<b>190</b>	<b>40</b>	<b>6.4</b>	<b>2.2</b>	<b>11</b>	<0.5	<0.5	<b>14</b>	<0.5	<5.0	<0.5	<b>1.9</b>
	12/02/04	1,2	<b>68</b>	<250	<b>300</b>	<b>92</b>	<b>11</b>	<b>6.9</b>	<b>5.4</b>	<0.5	<0.5	<b>13</b>	<0.5	<5.0	<0.5	<b>3.5</b>
	03/14/05	1,2,4	<b>88</b>	<250	<b>330</b>	<b>98</b>	<b>15</b>	<b>11</b>	<b>10</b>	<0.5	<0.5	<b>14</b>	<0.5	<b>19</b>	<0.5	<b>4.7</b>
<b>MW-2</b>	09/04/04	1,2	<b>360</b>	<250	<b>21,000</b>	<b>1300</b>	<b>800</b>	<b>1100</b>	<b>2400</b>	<5.0	<5.0	<b>20</b>	<5.0	<b>110</b>	<5.0	<b>79</b>
	12/02/04	1,2	<b>4000</b>	<250	<b>35,000</b>	<b>2400</b>	<b>2000</b>	<b>1700</b>	<b>4700</b>	<5.0	<5.0	<b>21</b>	<5.0	<50	<5.0	<b>90</b>
	03/14/05	1,2	<b>5100</b>	<250	<b>35,000</b>	<b>1700</b>	<b>1500</b>	<b>1300</b>	<b>3600</b>	<5.0	<5.0	<b>22</b>	<5.0	<b>160</b>	<5.0	<b>88</b>
<b>MW-3</b>	09/04/04	2	<50	<250	<b>50</b>	<b>0.98</b>	<0.5	<b>1.2</b>	<0.5	<0.5	<0.5	<0.5	<0.5	<5.0	<0.5	<b>12</b>
	12/02/04	2	<b>82</b>	<250	<b>260</b>	<b>4.7</b>	<b>1.1</b>	<b>9.6</b>	<b>2.3</b>	<0.5	<0.5	<b>0.80</b>	<0.5	<b>6.2</b>	<0.5	<b>34</b>
	03/14/05	2	<b>110</b>	<250	<b>230</b>	<b>3.7</b>	<b>0.77</b>	<b>7.9</b>	<b>2.6</b>	<0.5	<0.5	<b>0.55</b>	<0.5	<b>6.3</b>	<0.5	<b>21</b>
<b>MW-4</b>	09/04/04	1,2	<b>1900</b>	<250	<b>4800</b>	<b>2.6</b>	<b>7.3</b>	<b>220</b>	<b>240</b>	<1.0	<1.0	<b>23</b>	<1.0	<10	<1.0	<1.0
	12/02/04	1,3	<b>1200</b>	<250	<b>3800</b>	<5.0	<b>10</b>	<b>180</b>	<b>170</b>	<1.0	<1.0	<b>21</b>	<1.0	<10	<1.0	<1.0
	03/14/05	1,3,4	<b>1600</b>	<250	<b>3800</b>	<b>6.1</b>	<b>7.2</b>	<b>130</b>	<b>110</b>	<1.0	<1.0	<b>20</b>	<0.5	<b>7.4</b>	<1.0	<b>0.55</b>

LAB NOTES 1 = Gasoline range compounds are significant for diesel  
 2 = Unmodified or weakly modified gasoline is significant for gasoline  
 3 = Heavier gasoline range compounds are significant for gasoline (aged gasoline?)  
 4 = Diesel range compounds are significant for diesel



TMG

0503281

## McCAMPBELL ANALYTICAL INC.

110 2<sup>nd</sup> AVENUE SOUTH, #D7

PACHECO, CA 94553-5560

Telephone: (925) 798-1620

Fax: (925) 798-1622

## CHAIN OF CUSTODY RECORD

## TURN AROUND TIME

RUSH

24 HR

48 HR

72 HR

5 DAY

EDF Required? Coelt (Normal)

No

Write On (DW)

No

Report To: Don McEdwards

Bill To: SAME

Company: The McEdwards Group

1025 Hearst-Willits Road

Willits, CA 95490-9743

Tele: (707) 459-1086

E-Mail: TMG@NSTAWAVE.NET

Project #: 1078.01.02

Fax: (707) 459-1084

Project Location: LITTLE RIVER

Project Name: 7746 N. HWY 1

Sampler Signature: Donald G. McEdwards

SAMPLE ID (Field Point Name)	LOCATION	SAMPLING		# Containers	Type Containers	MATRIX					METHOD PRESERVED				Analysis Request	Other	Comments
		Date	Time			Water	Soil	Air	Sludge	Other	Ice	HCl	HNO <sub>3</sub>	Other			
↓ MW-1		3/14/05	1630	4	VOA	✓					✓	✓			✓		
"		"	"	1	LTR	✓					✓				✓		
+ MW-2		3/14/05	1730	4	VOA	✓					✓	✓			✓		
"		"	"	1	LTR	✓					✓				✓		
(+) MW-3		3/14/05	1700	4	VOA	✓					✓	✓			✓		
"		"	"	1	LTR	✓					✓				✓		
(+) MW-4		3/14/05	1600	4	VOA	✓					✓	✓			✓		
"		"	"	1	LTR	✓					✓				✓		

REC'D SEALED &amp; INTACT VIA

Calovernight

Relinquished By:

Don McEdwards

Date:

3/14/05

Time:

0800

Received By:

MR VALL 3/17/05 Ham

Relinquished By:

Date:

Time:

Received By:

Relinquished By:

Date:

Time:

Received By:

ICE/T°

GOOD CONDITION

HEAD SPACE ABSENT

DECHLORINATED IN LAB

PRESERVATION

APPROPRIATE

CONTAINERS

PERSERVED IN LAB

VOAS

O&amp;G

METALS

OTHER



# Well Purging and Sampling Record

The McEdwards Group, 1025 Hearst-Willits Road, Willits, CA 95490

Tel: 707/459-1086 Fax: 707/459-1084

Field work done by Donald G. McEdwards

Site Name 7746 N. HWY 1 Project No. 1078.0102 Date 3/14/05

Five casing volumes (5CV) = water column (WC) in ft \* 0.816 (5/6) gal/ft for 2" well [3.26 (10/3) gal/ft for 4" well]

MW 1 Depth<sup>a</sup> 25 WL<sup>b</sup> 8.05 WC<sup>a-b</sup> 6.95 5CV 13.83

Gal	pH	Cond	Turb	D.O	Temp
2	6.53	.500	145	-0.07	15.5
4	6.45	.550	106	-0.10	15.2
6	6.43	.562	91	-0.12	15.5
8	6.26	.472	193	-0.10	15.7
10	6.23	.492	183	-0.10	15.9
12	6.36	.561	457	-0.05	16.1

14 DRAINING SANDPCK - V. DIET

Purged Gallons: 14 Time Sampled 1630  
 V. LOW FLOW, EMPTY @ 14

MW 3 Depth<sup>a</sup> 25 WL<sup>b</sup> 12.50 WC<sup>a-b</sup> 12.50 5CV 10.20

Gal	pH	Cond	Turb	D.O	Temp
2	6.79	.809	120	1.07	15.6
4	6.63	.735	64	0.68	15.7
6	6.68	.786	43	0.39	15.8

WELL EMPTY @ 8 GALLONS

Purged Gallons: 8 Time Sampled 1700

MW     Depth<sup>a</sup>     WL<sup>b</sup>     WC<sup>a-b</sup>     5CV    

Gal	pH	Cond	Turb	D.O	Temp
-----	----	------	------	-----	------

Purged Gallons:     Time Sampled    

MW     Depth<sup>a</sup>     WL<sup>b</sup>     WC<sup>a-b</sup>     5CV    

Gal	pH	Cond	Turb	D.O	Temp
-----	----	------	------	-----	------

Purged Gallons:     Time Sampled    

MW 2 Depth<sup>a</sup> 25 WL<sup>b</sup> 15.60 WC<sup>a-b</sup> 9.32 5CV 12.79

Gal	pH	Cond	Turb	D.O	Temp
2	6.70	.896	370	0.15	15.3
4	6.66	.892	299	-0.12	15.4
6	6.64	.772	349	-0.13	15.5
8	6.60	.746	864	-0.10	15.5
10	6.63	.809	792	-0.04	15.5

Purged Gallons: 10 Time Sampled 1730

MW 4 Depth<sup>a</sup> 25 WL<sup>b</sup> 7.20 WC<sup>a-b</sup> 7.72 5CV 14.45

Gal	pH	Cond	Turb	D.O	Temp
2	6.50	.218	11	0.62	15.6
4	6.44	.596	13	-0.09	15.1
6	6.36	.594	33	-0.10	15.2
8	6.36	.616	49	-0.10	15.4
10	6.39	.640	30	-0.10	15.7
12	6.42	.640	36	-0.10	15.8
14	6.40	.615	34	-0.07	15.9

Purged Gallons: 16 Time Sampled 1600  
 16 6.39 .619 47 0.12 16.0

MW     Depth<sup>a</sup>     WL<sup>b</sup>     WC<sup>a-b</sup>     5CV    

Gal	pH	Cond	Turb	D.O	Temp
-----	----	------	------	-----	------

Purged Gallons:     Time Sampled    

MW     Depth<sup>a</sup>     WL<sup>b</sup>     WC<sup>a-b</sup>     5CV    

Gal	pH	Cond	Turb	D.O	Temp
-----	----	------	------	-----	------

Purged Gallons:     Time Sampled